

*American Society of Sanitary Engineering*  
PRODUCT (SEAL) LISTING PROGRAM



ASSE STANDARD #1061 - REVISED: 2011  
Performance Requirements for Push-Fit Fittings

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MANUFACTURER: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

LABORATORY FILE NUMBER: \_\_\_\_\_

MODEL # TESTED: \_\_\_\_\_

MODEL SIZE: \_\_\_\_\_

ADDITIONAL MODELS REPORT APPLIES TO: \_\_\_\_\_

ADDITIONAL MODEL INFORMATION (i.e. orientation, series, end connections, shut-off valves): \_\_\_\_\_

DATE MODELS RECEIVED BY LABORATORY: \_\_\_\_\_

DATE TESTING BEGAN: \_\_\_\_\_

DATE TESTING WAS COMPLETED: \_\_\_\_\_

IF MODELS WERE DAMAGED DURING SHIPMENT, DESCRIBE DAMAGES: \_\_\_\_\_

PROTOTYPE OR PRODUCTION: \_\_\_\_\_

**General information and instructions for the testing engineer:**

*The results within this report apply only to the models listed above.*

There may be items for which the judgment of the test engineer will be involved. Should there be a question of compliance with that provision of the standard, a conference with the manufacturer should be arranged to enable a satisfactory solution of the question.

Should disagreement persist and compliance remain in question by the test agency, the agency shall, if the product is in compliance with all other requirements of the standard, file a complete report on the questionable items together with the test report, for evaluation by the ASSE Seal Board. The Seal Board will then review and rule on the question of compliance with the intent of the standard then involved.

Documentation of material compliance must be furnished by the manufacturer. The manufacturer shall furnish to the testing agency, a bill of material which clearly identifies the material of each part included in the product construction. This identification must include any standards which relate thereto.



**SECTION 1**

**1.0 General**

**1.1 Application**

Does this application apply to push-fit fittings intended for domestic or commercial applications for potable water distribution systems or hydronic heating systems?

Yes  No

**1.2 Scope**

Do the fittings submitted for testing conform to the products described in this standard?

Yes  No

**1.2.1 Description**

Identify the tubing material on which these fittings can be used:

- PEX Tube
- Copper
- CPVC
- PE-RT

1.2.2 Size or size range that was submitted for testing: \_\_\_\_\_ inches ( \_\_\_\_\_ mm) to \_\_\_\_\_ inches ( \_\_\_\_\_ mm)

**1.2.3 Minimum Pressure**

What is the working pressure as noted by the manufacturer?

\_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

**Minimum Temperature Range**

What is the temperature range as noted by the manufacturer?

Minimum: \_\_\_\_\_ °F ( \_\_\_\_\_ °C)

Maximum: \_\_\_\_\_ °F ( \_\_\_\_\_ °F)

**SECTION II**

**2.0 Test Specimens**

2.1 Were fittings of each type by size on which approval is being sought submitted for evaluation?

Yes  No

Identify the types of tubing to be used in this evaluation:

- PEX Tube
- Copper
- CPVC
- PE-RT

Were any integral push-fit connectors in plumbing devices submitted for evaluation?

Yes  No

Identify each device: \_\_\_\_\_

2.2 Were assembly and installation drawings and other data which are needed to enable a testing agency to determine compliance with this standard submitted with the fittings?

Yes  No



**SECTION III**

**3.0 Performance Requirements and Compliance Testing**

**NOTE: ALL REQUESTS FOR MEASUREMENT OF PRESSURE, TEMPERATURE, DISTANCE, TIME, ETC. ARE TO BE SHOWN TO AT LEAST ONE (1) DECIMAL POINT.**

**3.1 Hydrostatic Sustained Pressure Test for Fittings with an Elevated Temperature or Pressure Rating**

Describe the test assembly and joints which were used for the test:

Was each joint fully purged of air?  Yes  No

Temperature of conditioning medium: \_\_\_\_\_ °F ( \_\_\_\_\_ °C)

Test assembly was conditioned for: \_\_\_\_\_ hour(s)

Pressure in test assembly was increased to: \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
for \_\_\_\_\_ hour(s)

Was each assembly in complete compliance with the criteria of Section 3.1?  Yes  No

(use a separate sheet for each size)

**3.2 Mechanical Separation Test**

Describe the test assembly and joints which were used for the test:

Assembled fittings and tubing was conditioned at: \_\_\_\_\_ °F ( \_\_\_\_\_ °C)  
for \_\_\_\_\_ hour(s) in water  
or \_\_\_\_\_ hour(s) in air

A longitudinal test load of: \_\_\_\_\_ lbf ( \_\_\_\_\_ N)  
was applied for: \_\_\_\_\_ hour(s)

Test assembly was immersed in water at: \_\_\_\_\_ °F ( \_\_\_\_\_ °C)  
and pressurized with: \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
at \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

Were there any signs of leakage?  Yes  No

Pressure was increased to: \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

Were there any signs of leakage?  Yes  No

Was each assembly in complete compliance with the criteria of Section 3.2?  Yes  No



**3.3 Hydrostatic Rupture Test for Fittings with an Elevated Temperature or Pressure Rating**  
Describe the test assembly and joints which were used for the test:

Assembly #1 was tested in accordance with ASTM D 1599 at a temperature of: \_\_\_\_\_ °F ( \_\_\_\_\_ °C)  
A pressure of: \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
was applied to assembly #1 for: \_\_\_\_\_ seconds

Assembly #2 was tested in accordance with ASTM D 1599 at a temperature of: \_\_\_\_\_ °F ( \_\_\_\_\_ °C)  
A pressure of: \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
was applied to assembly #2 for: \_\_\_\_\_ seconds

Were the test pressures applied to assemblies #1 and #2 equal to or greater than the test pressures specified in ASTM F 877?  Yes  No

Was there any loss of pressure due to leakage or damage to the fitting components or failure of the tube at the joint during the tests?  Yes  No

**3.4 Bending Test (PEX and PE-RT Tubing 1" CTS and Smaller Only)**  
Describe the test assembly and joints which were used for the test:

Fittings were assembled on a length of tubing (not from a coil): \_\_\_\_\_ inches ( \_\_\_\_\_ mm)

Assembly was conditioned in water at a temperature of: \_\_\_\_\_ °F ( \_\_\_\_\_ °C)  
for \_\_\_\_\_ hour(s)

Was the assembly installed in a test set-up per Figure 1?  Yes  No

Was the assembly bent per the instructions of Section 3.4.2?  Yes  No

A hydrostatic pressure of: \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
was applied to the assembly using water at a temperature of: \_\_\_\_\_ °F ( \_\_\_\_\_ °C)  
for a test period of : \_\_\_\_\_ minutes

Was there any leakage from the assembly?  Yes  No

**3.5 Bending Test with Rigid Tubing**  
Describe the test assembly and joints which were used for the test:

Was the assembly installed in a test set-up per Figure 2?  Yes  No

The test load was applied at a distance of: \_\_\_\_\_ ft ( \_\_\_\_\_ m)

The total applied load was: \_\_\_\_\_ lbf ( \_\_\_\_\_ N)



A hydrostatic internal pressure of pressure of : \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
 was applied for: \_\_\_\_\_ hour(s)  
 with water at: \_\_\_\_\_ °F ( \_\_\_\_\_ °C)  
 Was there any leakage or weeping from the device on test or the connections to the device?  
 Yes  No

**3.6 Hydraulic Shock (Water Hammer) Test**

Describe the test assembly and joints which were used for the test:

The assembly was mounted in a system with a water pressure of:  
 \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)

The assembly was subjected to a hydraulic shock once every  
 \_\_\_\_\_ seconds  
 for \_\_\_\_\_ cycles  
 with ambient water at: \_\_\_\_\_ °F ( \_\_\_\_\_ °C)

Each cycle shall consist of a sudden increase in pressure within  
 \_\_\_\_\_ seconds  
 to \_\_\_\_\_ psi ( \_\_\_\_\_ kPa)  
 and a return to atmospheric pressure.

Was there any indication of leakage, damage or separation from the tubing?  Yes  No

**SECTION IV**

**4.0 Materials**

**4.1**

**4.1.1**

Were all copper alloys in contact with the potable water less than 56% copper (Cu) by weight and have a lead (Pb) content 8% or less by weight?  Yes  No

Were there copper alloys in contact with the potable water that contained more than 15% zinc (Zn)?  Yes  No

If yes, what was the depth of dezincification when tested in accordance with ISO 6509? \_\_\_\_\_  $\mu\text{m}$

Was the test sample subjected to a test solution of 9.5 pH per ASTM B 858?  Yes  No

The exposure time of the test sample in the pH solution was: \_\_\_\_\_ hours

Were there any signs of stress corrosion cracking?  Yes  No

**4.1.2** Did all components of the fitting in contact with potable water comply with the applicable requirements of NSF/ANSI 61?  Yes  No

**4.1.3** Were all ferrous materials used at a minimum of stainless steel series 300 complying with the requirements of ASTM A 240?  Yes  No

**4.1.4** The elastomer test specimens were tested per ASTM A 240 D 6284 for \_\_\_\_\_ hours  
 at \_\_\_\_\_ °F ( \_\_\_\_\_ °C)  
 in a solution containing: \_\_\_\_\_ ppm  
 total chlorine.



Upon completion of the testing:

- 1.) Was there a change in volume greater than 30%?  Yes  No
- 2.) Was there a change in durometer type A hardness greater than 6?  Yes  No

Were there any sulfur-cured elastomeric materials used in this device?  Yes  No

**4.2 Adapter / Transition Fitting Connections**

Were all fitting connections in compliance with Sections 4.2.1, 4.2.2, 4.2.3, 4.2.4 and 4.2.5 of this Standard?  Yes  No

**4.3 Marking Instructions**

Fittings were marked with the following information: \_\_\_\_\_  
\_\_\_\_\_

How were the markings applied? \_\_\_\_\_

**4.4** Were installation instructions packaged with the fittings?  Yes  No



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TESTING AGENCY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

TEST ENGINEERS: \_\_\_\_\_

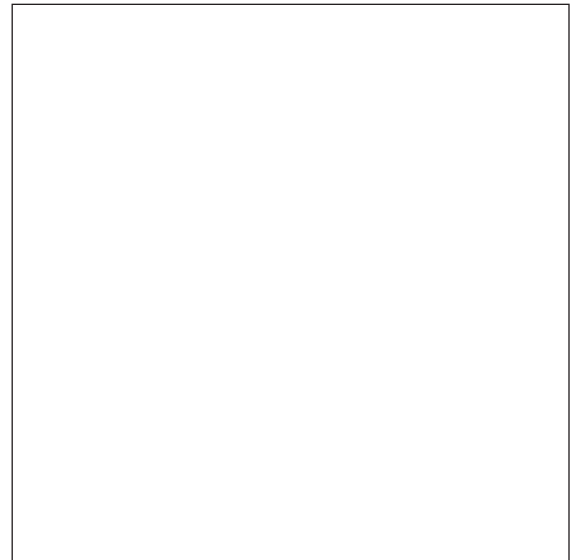
*We Certify that the evaluations are based on our best judgements and that the test data recorded is an accurate record of the performance of the device on test.*

SIGNATURE OF THE OFFICIAL OF THE AGENCY: \_\_\_\_\_

TITLE OF THE OFFICIAL: \_\_\_\_\_ DATE: \_\_\_\_\_

**SIGNATURE AND SEAL OF THE REGISTERED PROFESSIONAL ENGINEER SUPERVISING THE LABORATORY EVALUATION:**

SIGNATURE: \_\_\_\_\_



**PE SEAL**

\*To insert images into document (PE seal and signatures)

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**COMMENTS:**